

WHAT IS CLAIMED IS:

1. A steel sheet for a magnetic shield comprising less than 0.005 % by weight of C and 0.0003 to 0.01 % by weight of B, and having a thickness of 0.05 to 0.5 mm and an anhysteresis magnetic permeability of 7500 or more.

2. The steel sheet according to claim 1, further comprising one or more elements selected from the group consisting of Ti, Nb, and V, the total amount of which is 0.08 % by weight or less.

3. A method of producing a magnetic shielding steel sheet of claim 1 comprising:

(a) hot-rolling a steel slab containing less than 0.005 % by weight of C and 0.0003 to 0.01 % by weight of B to form a hot-rolled steel sheet;

(b) cold-rolling the hot-rolled steel sheet from step (a);

(c) annealing the resulting cold-rolled steel sheet from step (b); and

(d) optionally skin-pass rolling the steel sheet from step (c) at a reduction of 1.5 % or less.

4. A method of producing a magnetic shielding steel sheet of claim 2 comprising:

(a) hot-rolling a steel slab containing less than 0.005% by weight of C, 0.0003 to 0.01 % by weight of B and one or more elements selected from the group consisting of Ti, Nb, and V, the total amount of which is 0.08 % by weight or less to form a hot-rolled steel sheet;

(b) cold-rolling the hot-rolled steel sheet from step (a);

(c) annealing the resultant cold-rolled steel sheet from step (b); and

(d) optionally skin-pass rolling the steel sheet from step (c) at a reduction of 1.5 % or less.

5. A steel sheet for a magnetic shield comprising less than 0.005 % by weight of C and one or more elements selected from the group consisting of Ti, Nb, and V, the total amount of which is 0.08 % by weight or less, and having a thickness of 0.05 to 0.5 mm and an anhysteresis magnetic permeability of 7500 or more.

6. A method of producing a magnetic shielding steel sheet of claim 5 comprising:

(a) hot-rolling a steel slab containing less than 0.005% by weight of C and one or more elements selected from the group

consisting of Ti, Nb, and V, the total amount of which is 0.08 % by weight or less to form a hot-rolled steel sheet;

(b) cold-rolling the hot-rolled steel sheet from step (a);

(c) annealing the resultant cold-rolled steel sheet from step (b); and

(d) optionally skin-pass rolling the steel sheet from step (c) at a reduction of 1.5 % or less.